

CHERNOV, V.P.; MARYSHEV, A.N., polkovnik, redaktor; SOKOLOVA, G.F.,

[Artillery weapons] Artilleriiskoe orudie. Moskva, Voen. izd-vo
Vcen. Ministerstva Soiuza SSR, 1953. 117 p. (MIRA 7:10)

(Artillery)

KICHKA, Vasiliy Yerestovich; CHERNOV, V.P., inzh.-polkovnik, red.; SLEPTSOVA, Ye.N., tekhn. red.

[Infrared rays in military affairs]Infrakrasnye luchi v voennom dele. Moskva, Voenizdat, 1962. 175 p. (MIRA 15:9) (Infrared rays.—Military applications)

KOROVKIN, Aleksandr Sergeyevich; CHERNOV, V.P., inzh.-polkovnik, red.; SRIENIS, N.V., tekhn. red.

[Infrared technology] Infrakrasnaia tekhnika. Moskva, Voenizdat, 1963. 71 p. (MIRA 16:8)

(Infrared days--Military applications)

CHERNOV, V.P.

Typical Podzolic soils in Perm Province formed on topsoil and moraine loams. Pochvovedenie no.3:1-12 Mr '65.

1. Permskiy sel'skokhozyaystvennyy institut imeni Pryanishnikova.

sov/96-59-10-11/22

Chernov, V.S. (Engineer) AUTHOR:

Design Problems of Demineralising Installations

PERIODICAL: Teploenergetila, 1959, Nr 10, pp 60-66 (USSR)

ABSTRACT: In view of the latest requirements in respect of feed. water quality and boiler blow-down, it is practically essential to use demineralisation installations for feedwater purification. Two examples to illustrate this point are given. In 1956 the Khar kov division of Teploelektroproyekt developed typical designs for demineralising installations with outputs of 500, 1000 and 1500 tons per hour. The equipment was intended for purifying make-up water for drum-type boilers operating at pressures of 100-180 atms. Properties of the three types of raw water considered are given in Table 1. The general principles adopted were: coagulation on mechanical filters; H-cation treatment; demineralising with low-base anionites and decarbonisation; second-stage H-cation treatment and demineralising with high-base anionites.
The ionites selected were: low-base anionite grade AN-2F, high-base anionite of grade EDE-10P and cationite sulpho-Some information is given about the

types of equipment used. Working drawings were prepared carbon grade K. Card 1/5

Design Problems of Demineralising Installations SOV/96-59-10-11/22 only for the 500 ton per hour installation working on Moscow river water. Minor modifications were required prepared for water-purifying installations for a station In 1957 a typical design was of 1200 MW equipped with once-through boilers. The station was assumed to have either a PVK-200 or a SVK-200 turbo-alternator operated as a unit with once-through boilers each of 640 tone per hour output. Three types of water purification equipment were proposed depending upon the properties of the raw water available, and brief details of each are given. The general principles were the same as before except that demineralisation with high-base anionite was followed by a third stage of H-cation treatment and demineralisation with low-base anionite regenerated with ammonia. The assumptions made in calculating the necessary output of the water purifying During the process of developing demineralising installations considerable improvements were made in the circuits and arrangements for automatic control. Fig 1 shows a schematic circuit Card 2/5 diagram of a water purification installation for drum-type

Design Problems of Demineralising Installations SOV/96-59-10-11/22

boilers such as are now being built in power stations. In this circuit the water is coagulated and clarified in clarifiers type TsNII-2 without subsequent filtration on mechanical filters. Fig 2 gives a schematic diagram of the method of measuring coagulant and sodium hydroxide in a clarifier using an acid-resisting plunger-type pump. Fig 3 shows the schematic circuit diagram of the method of automatic control of the whole process of regeneration of the H-cationite filter and also of drawing sulphuric acid into the installation tanks from railway tankers. Fig 4 shows a schematic circuit diagram for automatic control of the entire process of regenerating anionite filters of the first and second stages. The operation of this system is briefly described. The available anionite is of poor quality and requires large quantities of alkali and washing water, and so the circuits are rather complicated and may be difficult to operate. Much simpler circuits can be used if the anionite quality is improved. Fig 5 shows a schematic circuit diagram of the method of Card 3/5 neutralising acid water in tanks by alkali water used for regeneration of the anionite filters. The output of the water purification plant will be automatically controlled

SOV/96-59-10-11/22

Design Problems of Demineralising Installations

using the schematic circuit diagram given in Fig 6. is briefly described. A good deal of the equipment used in the water-treating plants will be of standard manufacture, but as not all of the necessary equipment is yet regularly manufactured some will have to be made up on site, including the clarifiers, decarbonisers, hydroelevators, tanks and some other parts. A schematic circuit diagram of an automatic water purification installation is given in Fig 7; the operating principles are briefly described. Acid-resisting coatings are used to protect metal parts of the equipment and piping. These include perchlorvynil lacquers, bakelite compositions, polyisobutylenes and other special materials. Use is made of polyvinyl chloride pipes with fittings of stainless Card 4/5 steel. Schematic layouts of water purification installations are given in Figs 8 and 9. They provide for easy extension of the filter room. Other details of the

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Design Problems of Demineralising Installations

proposed arrangement are briefly discussed. Cost data for the various proposed installations are given in

Table 2.

There are 9 figures, 2 tables, no references.

ASSOCIATION: Teploelektroproyekt, Khar'kovskoye otdeleniye (The Teploelektroproyekt Khar'kov Division)

Card 5/5

CHERNOV, V.S.

Practices in the elimination of trichomoniasis in cows. Veterinariia 38 no.4:43-44 Ap '61 (MIRA SEL)

1. Zaveduyushchiy Troyanskim veterinainym uchastkom Golovanev-skogo rayona, Kirevogradskoy oblasti.

KHARLAMOV, M.G.; CHERNOV, V.Ya.

Isolation of the Vishnevskii intrusive complex in the Selety-Shiderty region of central Kazakhstan. Trudy VSEGEI 74:147-170 '62. (MIRA 15:9) (Kazakhstan-Rocks, Igneous)

POKROVSKAYA, G.V.; CHERNOV, Vasiliy Stepanovich; STUKOVNIN, N.D., red.

[Organic chemistry] Organicheskaia khimiia. Moskva, Vys-shaia shkola, 1963. 217 p. (MIRA 17:4)

KUPLYAYEV, I.M. (Leningrad, B. Pushkarskaya ul. d. 30., kv.27); IVLIYEV, N.N.

(Gor'kiy, ul. Radistov, d.6, kv.6'; CHERNOV, Ya.G. (Gor'kiy, ul.
Radistov, d. 6, kv.6); PISAREV, A.L. (Moskva, Lyubertsy, 4. pos.
Vsesoyuznogo nauchno-issledovatel'skogo ugol'nogo instituta, d.5, kv.5);
GASPAROV, R.G. (Moskva, I-51, 2-y cobovskiy pereulok d.9/2 kv.18);
POPOV, B.I. (Irkutsk, 13, Depovski pereulok, d.83, kv.2); PIONTKOVSKIY,
B.A. (Moskva, Ye-77, Sredne-Pervomayskaya ul. d.13, kv.4); VEDENEYEV,
G.M. (Moskva, I-110, B. Spasskaya, d. 15/17, kv.29); KRECHER, V.G.
(Uzhgorod, Zakarpatskaya obl., ul. Kosmodem'yanskoy, d.4, kv.69);
SIDORENKO, A.P. (Leningrad, ul. Frunze, d.15, kv.38); SPIRIDONOV, A.V.
(Leningrad, ul. Frunze, d.15, kv.38); SEREDA, P.A. (Moskva);
IL'IN, V.F.; PEL'TSMAN, L.N.; DANILEVICH, A.I. (Khar'kov, Plekhanovskiy pereulok, d.9a, kv.2); KHIMENKO, L.T. (Khar'kov, Plekhanovskiy pereulok, d.92, kv.2); LYKOV, M.V. (Moskva, Leninskiy prospekt, d.55);
RYBAL'CHENKO, 3.F. (Moskva, Leninskiy prospekt, d.55); BOYKO, V.F.
(Leningrad, M.-142, ul. Tipanova, d.3, kv.130); KITAYEV, G.I. (Chelyabinsk, Smolenskaya ul. d.4); SKLYARCV, A.Ye. (Novocherkassk, Rostovskoy obl. pos. Oktyabr'skiy, Gvardeyskaya ul. d.30, kv.29)

Discoveries and inventions. Prom. energ. 19 no.11:57-58 N 164. (MIRA 18:1)

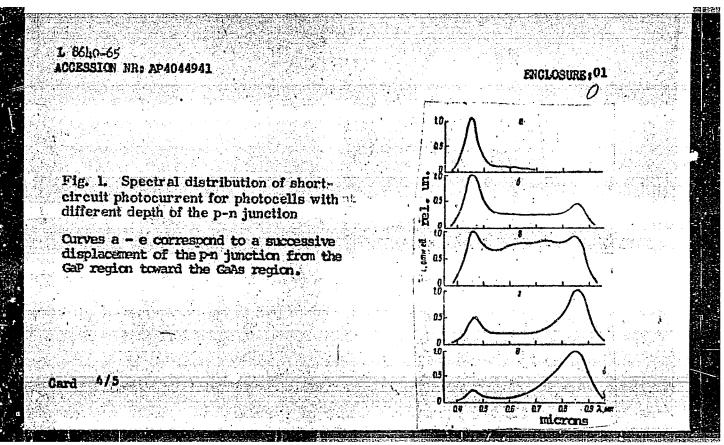
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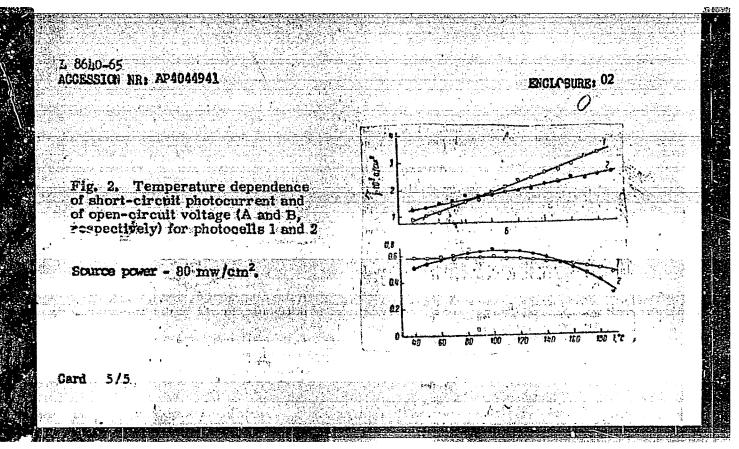
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| inc. The initial material was a GaAs single cryst iensity (24) × 10 ¹⁷ cm ⁻³ and mobility ~3000 cm ² / | v-sec. The re- |
| ults have shown that a system constituting a surfa | ce layer of GaP, a |
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| Ith the region of variable composition, in which t | he width of the |
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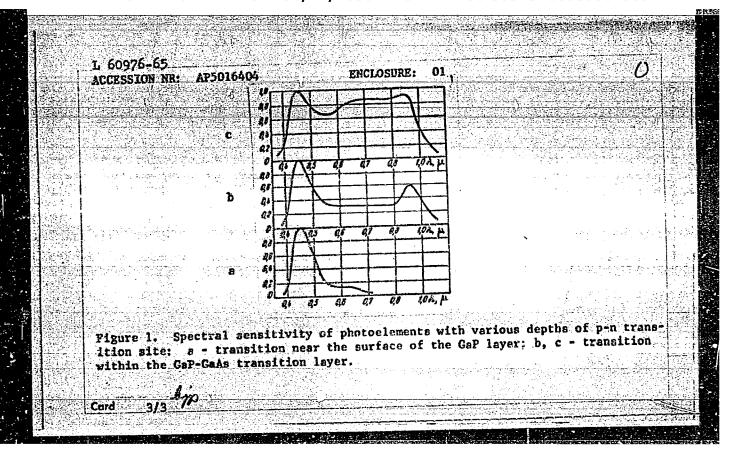


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L 60976-65 EWA(h)/5WT(1)/EWT(m)/EWP(b)/T/EWP(t) Pz-6/Peb AT/JD/JG ACCESSION NR: AP5016404 UR/0120/65/000/003/0232/0233 621.383.5 AUTHOR: Kagan, M.B.; Landsman, A.P.; Chernov, Ya.I. TITIE: Photoelement with extended spectral sensitivity SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1965, 232-233 TOPIC TAGS: Photoelement, spectral sensitivity, semiconductor, gallium phosphide gallim arsenide, p n junction ARSTRACT: The fessibility of a spectral sensitivity correction in Photoelements operating in the 0.45-0.85 μ range without the use of photofilters or reductions in spectral sensitivity was discussed earlier by E.D. Jackson (Trans. Conf. on the Use Solar En., 1955, 5, 126) and T. Wolf (Proc. IRE, 1960, 48, 1246). The method is based on p-n junction semiconductor photoelements which contain variable-width Porbidden bands. The present article reports on such a GaP-GaAs system (electron concentration 1-5.10 cm-3, electron mobility 3000 cm2/sec at room temperature) within which, during the diffusion of P from the vapor phase, there appears a sur-Pace layer of gallium phosphice together with a thin GaP to GaAs transition region corresponding to a forbidden some width change from 2.25 to 1.35 eV (at room temperature). The total thickness of the superposed layers is 5-7 \u03c4. The electron-Card 1/3

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| Moseow (All-Union Sc | ientific Research | Institute for Cu | rrent Sources) | |
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EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/JG L 6337-66 UR/0181/65/007/008/2538 ACCESSION NR: AP5019882 AUTHOR: Gutkin, A. A.; Kagan, M. B.; Sedov, V. Ye.; Chernov, Ya. I. TITIE: Effect of orientation of GaAs crystals on the depth and photoelectric properties of diffusion pn junctions SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2538-2539 TOPIC TAGS: gallium arsenide, pn junction, zinc, photoelectric cell, spectral distribution, photosensitivity ABSTRACT: In view of some contradiction in earlier results (M. T. Minamoto and H. T. Malafi, J. Appl. Phys. v. 34, 1876, 1963) the authors have investigated the influence of orientation on the rate of diffusion of zinc by producing deep p-n junctions in plates having the same orientations as used in the preparation of photocells. The spectral distributions of the photosensitivity at photon energies 1.3--3 ev, of diffusion GaAs photocells which the authors produced under identical conditions, turned out to be practically the same, in spite of the fact that earlier results indicated that the position and form of the p-n junction should depend on the concentration and distribution of the dislocation. The initial material was single-crystal GaAs of n-type with electron density (2--3) x 10¹⁷ cm⁻³ and mobility 3500-4000 cm²v⁻¹sec⁻¹ grown horizontally by the Bridgman method. 0902004 Card 1/2

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The treatment of the crystals is described. The results show that the thickness of the p-layer, and consequently the diffusion coefficient of the zinc, does not depend on the orientation. Addition of arsenic into the ampoule greatly reduces the diffusion coefficient of zinc. This result agrees with that of L. J. Vieland (J. Phys. Chem. Sol. v. 21, 318, 1961). Orig. art. has: 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute AN SSSR)

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-/ FINATORITY T-FACILITY OF TOTAL OF TAXABLE TOTAL OF THE TAXABLE TOTAL OF TAXABLE TAXABLE TOTAL OF TAX ACC NR. AP6007743 SOURCE CODE: UR/0293/66/004/001/0128/0136 AUTHOR: Kagan, M. B.; Landsman, A. P.; Chernov, Ya. I. 61 60 ORG: none TITLE: Analysis of spectral and thermal characteristics of photoelectric convertors and the selection of effective areas of their application Source: Kosmichaskiya issledovaniya, v. 4, no. 1, 1966, 128-136 TOPIC TAGS: solar cell, photoelectric cell, gallium arsenide, silicon ABSTRACT: The opectral and thermal characteristics of GaAs and GaAs-GaP energy converters were studied and compared with those made of Si in order to determine the most advantageous fields of application of the respective materials as photovoltaic sources of space power. The fabrication procedures and the basic parameters of the samples used in the experiments were described in earlier papers (Gutkin, A. A., D. N. Nasledov, V. Ye. Sedov, and B. V. Tsarenkov, PTT, 4, 9, 1962, 2338; Kagan, H. B., and A. P. Landsman, Ispol'zovaniye solnechnoy energii v narodnom khozyaystve, Izd-vo "Nauka," 965, p. 53; Kagan, H. B., A. P. Landsman, and Ya. I. Chernov, FTT, 6, 9, 1964, 2700). The effective area of the investigated GaAs cells was 1-1.5 cm² Cord 1/2 UDC: 621.383.5 C. Carrie

and their efficiency at 200 was 7-9%; the efficiency of the variablegap GaAs-GaP cells reached 6-7% at 200C. The measurements showed that while Si solar cells still appear to be the most suitable for the temperature range of +20-+80C and at normal solar illumination, at higher temperatures GaAs offers several advantages. The authors recommend the use of GaAs in the temperature range of +80-180C and in conjunction with solar concentrators. According to their calculations, a solar flux concentration by a factor of 4-6 can be achieved without the use of a cooling system, Variable-gap GaAs-GaP solar cells are recommended for use at temperatures above +2000. These cells are said to be able to withstand a solar flux concentration by a factor of 10-20 without the necessity of cooling. Orig. art. has: 6 figures, 2 tables, and 2 formulas. [ZL] SUB CODE: 10/ SUBM DATE: 29Dec64/ ORIG REF: 007/

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L 08129-67 EWT(m)/EWP(t)/ETI IJP(c) JD ACC NRI AP6033579 SOURCE CODE: UR/0181/66/008/010/3097/3099 AUTHOR: Gutkin, A. A.; Kagan, M. B.; Magerramov, E. M.; Chernov, Ya. I.; Gutkin, A. A. Kagan, M. B.; Magerramov, E. M.; Chernov, Ya. I. 60 ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-B tekhnicheskiy institut AN SSSR); All-Union Scientific-Reseach Institute of Current Sources, Moscow (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka) TITLE: Spectral characteristics of GaP-GaAs photocells in the photon energy region up to 5.4 ev $\frac{7}{27}$ SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3097-3099 TOPIC TAGS: gallium arsenide, gallium phosphide, gallium optic material, pn junction, photoelectric cell, photosensitivity ABSTRACT: This is a continuation of earlier work (Kosmicheskiye issledovani, IV, 128, 1966 and preceding papers) where the possibilities of GaP-GaAs p-n junctions were first revealed and studied. The present paper describes investigations of the photosensitivity of junctions prepared by diffusion of zinc in a GaAs plate in which a region of variable composition GaP As (1-x) was produced beforehand by heating in phosphorus vapor. The preparation procedure and some properties of such a junction were described earlier. The illuminated surface was subjected to various degrees of Card 1/2

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etching. The tests consisted of plotting the photocurrent spectra and the spectrum of the diffuse reflection from the surface. X-ray analysis of the junction structure, and the presence of a peak near 3.6 ev, reveal that the surface layer of the photocell contains not less than 90% of GaP and consequently its photosensitivity spectrum is governed by the band structure of GaP. Comparison of the reflection and photosensitivity spectra shows that the photocurrent per incident absorbed photon is constant (at hw 22.5-4.6 ev) and then drops off slightly towards 5.4 ev. This is also confirms the GaP-type band structure, which precludes any possible increase of the quantum yield for photons with energy lower than ~ 5.2 ev, when the internal photoeffect and impact ionization come into play. The fact that the quantum yield remains constant over a wide range of photon energies extending over different parts of the Brilluoin zone shows that the minority nonequilibrium carriers (electrons) excited by the photons in different parts of the conduction band have time to go over to the equilibrium state at room temperature within a time shorter than the carrier lifetime (< 10-9 sec). Consequently the drop in photosensitivity in the 2.6--3.5 ev region, which decreases strongly when the cell surface is etched, may be due to an increased role of surface recombination with increasing absorption coefficient, and not to a decrease in lifetime. 'The authors thank A. S. Toporets, A. V. Sheklein, and N. B. Rekant for measuring the diffuse-reflection spectra. Orig. art. has: 1 figure.

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atching. The tests consisted of plotting the photocurrent spectra and the spectrum of the diffuse reflection from the surface. X-ray analysis of the junction structure, and the presence of a peak near 3.6 ev, reveal that the surface layer of the photocell contains not less than 90% of GaP and consequently its photosensitivity spectrum is governed by the band structure of GaP. Comparison of the reflection and photosensitivity spectra shows that the photocurrent per incident absorbed photon is constant (at he 2.5-4.6 ev) and then drops off slightly towards 5.4 ev. This is also confirms the GaP-type band structure, which precludes any possible increase of the quantum yield for photons with energy lower than ~ 5.2 ev, when the internal photoeffect and impact ionization come into play. The fact that the quantum yield remains constant over a wide range of photon energies extending over different parts of the Brilluoin some shows that the minority nonequilibrium carriers (electrons) excited by the photons in different parts of the conduction band have time to go over to the equilibrium state at room temperature within a time shorter than the carrier lifetime (< 10-9 sec). Consequently the drop in photosensitivity in the 2.6-3.5 ev region, which decreases strongly when the cell surface is etched, may be due to an increased role of surface recombination with increasing absorption coefficient, and not to a decrease in lifetime. The authors thank A. S. Toporets, A. V. Sheklein, and M. B. Rekant for measuring the diffuse-reflection spectra. Orig. art. has: 1 figure.

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VOROB'YEV, Vasiliy Aleksandrovich, zasl. deyatel' nauki i tekhniki, prof.; KOROVNIKOVA, Vera Vasil'yevna, kand. tekhn. nauk; FEDOSEYEV, Georgiy Petrovich, starshiy prepodavatel'; CHERNOV, Ye., red.y USTINOVA, S., tekhn. red.

[Plastic building materials] Stroitel'nye materialy iz plasticheskikh mass. [By]V.A.Vorob'ev, V.V.Korovnikova, G.P. Fedoseev. Moskva, Mosk. rabochii, 1962. 179 p. (MIRA 16:3)

(Building materials) (Plastics)

CHERNOV, Ye. F. (Alma-Ata)

Caudate appendix in a child. Khirurgiia no.9:74 S 154. (MLRA 7:12)
(SPINE, abnormalities,
caudate appendix)
(ABNORMALITIES,
caudate spinal appendix)

CHERNOV, Ye. F.

"Epulis" (Clinical-Morphological Investigation)." Cand Med Sci, Kazakh State Medical Inst imeni V. M. Molotov, Alma-Ata, 1955. (KL, No 10, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

CHERNOV, Ye.F., kand.med.nauk

Treatment of ankylosis of the temporomandibular joint. Stomatologiia 38 no.5:29-31 S-0 '59. (MIRA 13:3)

1. Iz kafedry gospital noy khirurgii (ispolnyayushchiy obyazannosti zavednyushchego - dotsent N.S. Narodetskiy) Kazakhskogo meditsinskogo instituta (direktor - prof. I.S. Koryakin) i Alma-Atinskoy ob yedinennoy gorodskoy klinicheskoy bol nitsy (glavnyy vrach A.Yu. Etlina).

(TEMPOROMANDIBULAR JOINT--ANKYLOSIS)

TRUSHKIN, Vasiliy Polikarpovich; CHERNOV, Ye., red.; KUZNETSOVA, A., tekhn. red.

[Painting of articles in an electric field]Okraska izdelii v elektricheskom pole. Moskva, Mosk. rabochii, 1962. 47 p. (MIRA 15:3)

(Spray painting, Electrostatic)

AVRORIN, N.A.; KUZENEVA, O.I.; ORLOVA, N.I.; POYARKOVA, A.I.; SKYKNOVA-TYAN-SHANSKAYA, N.Z.; CHKRNOV, Ye.G.; SHLYAKOV, R.N.; YUZEPCHUK, S.V. [deceased]; ARONS, R.A., tekhn.red.

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva. No.4. 1959. 393 p. (MIRA 12:8)

1. Akademiya nauk SSSR. Kol'skiy filial, Kirovsk. (Murmansk Province--Dicotyledons)

CHERNOV, YE, G

GORODKOV, B.N., professor; KUZMNEVA, O.I.; ORLOVA, N.I.; POYARKOVA, A.I.; SELIVANOVA-GORODKOVA, Ye.A.; CHERNOV, Ye.G.; SHLYAKOVA, Ye.V.; GOLOVNIN, M.I., redaktor; KROL, D.M., tekhnicheskiy redaktor

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva, Izd-vo Akad. nauk SSSR, No.1. 1953 254 p., maps. No.2. 1954. 238 p., maps. (MIRA 8:7)

1. Polyarno-al'piyskiy botanicheskiy sad. (Murmansk Province-Botany)

Description of the family Cyperaceae, table for indentifying genera of the Cyperaceae family, and the genus Carex. Genera: Eriophorum, Trichophorum, Scirpus, Bolbbschoemus, Schoenoplectus, Blysmus, Eleccharis, Schoemus, Rhyncospora, Kobresia. Flora Murm.obl. no.2:11-142
154. (Murmansk Province—Sedges) (Sedges—Murmansk Province)

AVRORIN, N.A.; KUZENEVA, O.I.; ORLOVA, N.I.; PIS'YAUKOVA, V.V.; POYARKOVA, A.I.; ZEMENOVA-TYAN-SHANSKAYA, N.Z.; CHERNOV Ye.G.; SHLYAKOV, R.N.; TVERITINOVA, K.S., tekhnicheskiy redaktor

[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva, Izd-vo Akademii nauk SSSR. No.3. 1956. 449 p. (MLRA 9:11) (Murmansk Province-Botany)

AVRORIN, N.A.; CHERNOV, Ye, G.; SHMATOK, I.D.

Botanical investigations in Marmansk Province, Izv. Kar. i Kol' fil. AN SSSR no. 1:72-83 '57. (MIRA 11:7)

1. Polyarno-al'piyskiy botanicheskiy sad Kol'skogo filiala AN sssr.

(Murmansk Province-Botany)

L 24040-66

ACC NR: AP6011278

SOURCE CODE: UR/0413/66/000/006/0140/0140

INVENTOR: Semenov, V. S.; Chernov, Ye. G.

19

ORG: none

TITLE: Device for remote conversion of deflection angle of instrument indicator into a number of pulses. Class 74, No. 180116

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 140

TOPIC TAGS: remote control converter, electromagnetic pulses

ABSTRACT: This Author Certificate has been issued for a device for the remote conversion of the deflection angle of an instrument indicator into a number of pulses. It consists of a scale, a rachet wheel mounted on a hollow axle through which the pin of the indicator passes, and an electromagnet. The winding of the electromagnet receives pulses from a feed line passing through diodes. To improve the reliability of the device, it has two photoresistors with light sources connected into the power circuit which feeds the electromagnet winding. One photoresistor is at the beginning of the scale and the other is mounted on the instrument-indicator pin and moves with it. A small flag is attached to the rachet-wheel axle. As pulsed power is applied to the electromagnet winding, it moves and breaks the light current from the light source to the photoresistor.

SUB CODE: 14, 13, 09/ SUBM DATE: 27May64/
Cord 1/1 LDC: 621.3.083.7

CHERNOV, YE. I

"Investigation of the Low-Power Servomechanism Using Alternating Current." Thesis for degree of Cand Technical Sci. Sub 28 Dec 50, Inst of Automatics and Telemechanics Acad Sci USSR

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1950

SOV /124-58-5-5001

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 9 (USSR)

AUTHOR: Chernov, Ye.I.

TITLE:

On the Use of the Convolution Theorem in the Analysis of Automatic-control Systems Having Variable Coefficients (O primenenii teoremy svertki k analizu sistem avtomaticheskogo regulirovaniya s peremennymi koeffitsiyientami)

PERIODICAL:

Tr. 2-go Vses. soveshch. po teorii avtomat. regulirovaniya. Vol 2. Moscow-Leningrad, Izd-vo AN SSSR, 1955, pp 386-398 Comments pp 399-400)

ABSTRACT:

It is shown that the convolution method is a generalized method of successive approximations; the author points out the advantages of this method over the series method, since this method does not require that the numerical values of the equation's coefficients be known, and it affords the possibility of setting up the solution in a generic form. If the results are to be very precise, both the author's method and the series method will prove cumbersome and laborious. An account is given of the Zade and Kirby methods for solving differential equations with variable coefficients; the deficiencies of the

Card 1/2

SOV/124-58-5-5001

On the Use of the (cont.)

Zade method are indicated, also the deficiencies and advantages of the Kirby method and of the method used by the author. There are typographical errors in the article.

A.S. Tkachenko

1. Control systems--Mathematical analysis 2. Mathematics--Applications

Card 2/2

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| 267 | Chalquatkin, A.B., Candidate of Technical Sciences. Roughing Shop Automation With the Use of a Control Computer | | <u> </u> |
| e. | Roysen, 5.5., Candidate of Technical Sciences. Stabilising Devices of Tolling Mill Electric Drives with Augustia Asplitters | | JU |
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| 213 | Charact Tail. Candidate of Technical Sciences. Antomatic Stop Systems of the Cold-Rolling Earwaring Hill 1200* | | <u>/</u> |
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| 16 Pr. | Emitskif, M.P., Docent, Candidate of Technical Sciences. Electronic Ex- citation of Leverning Hill Drives | | |
| 222 | Flashor, V.I., Docest. Chilisation of Cas-Tabe Converters for Reversing | • | |
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CHERNOV, Ye.I. (Moskva)

Replacement of shunting motors in power-type servosystems with compound ones. Avtom. i telem. 25 no.1:131-135 Ja 164. (MIRA 17:2)

17(8)

SOV/177-58-7-27/28

AUTHORS:

Chertoritskiy, A.P., Colonel of the Medical Corps; Chernov, Ye.I., Major of the Medical Corps

TITLE:

A Portable System for Inhaling Antibiotics and

Other Remedies With Oxygen

PERIODICAL:

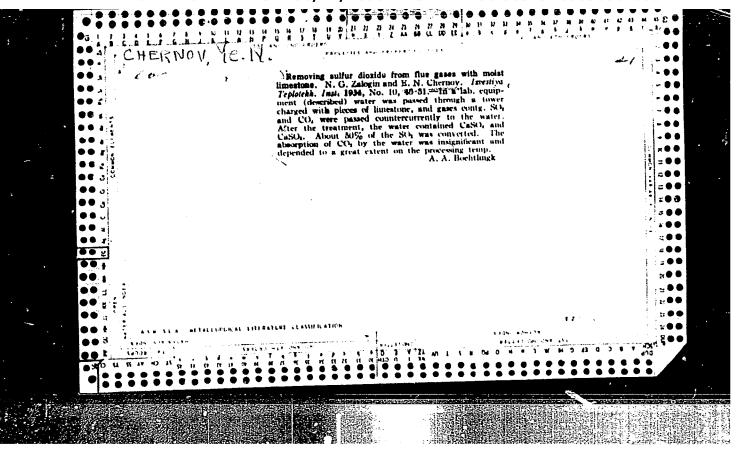
Voyenno-meditsinskiy zhurnal, 1958, Nr 7, p 95

(USSR)

ABSTRACT:

The author describes a portable inhaling apparatus which is being used in therapeutic departments of district hospitals in treating patients suffering from acute and chronic diseases of the upper respiratory passages and the lungs. There is 1 diagram.

Card 1/1



CHERNOY, Ye.N.

Higher courses in light industry. Tekst.prem.16 ne.1:23-25 Ja 156. (MLRA 9:4)

1.Zamestitel' direktera Vysshikh kursev legkey premyshlennesti.

(Mescew--Technical education)

CHERNOV, Ye.N., aspirant.

Sorption of steam by unbleached and dyed cotton fiber. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.1:17-26 158. (MIRA 11:5)

1. Moskovskiy tekstil'nyy institut.
(Dyes and dyeing-Cotton) (Cotton-Testing)

CHERNOV, Ye.N.

ø,

Modification of the mechanical properties of cotton during dyeing. Izv. vys.ucheb.zav.; tekh.tekst.prom. no.3:14-23 '60.

(MIRA 13:7)

1. Moskovskiy tekstil'nyy institut.
(Dyes aml dyeing--Cotton)

LANDYSHEVA, V.A.; KALIHINA, H.G.; RADCHENKO, G.O.; KUKIN, G.N.; CHERNOV, Ye.N.

Surface acetylated cotton. Report No.1. V.A.Landysheva and ethers. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.3:50-56 163. (MIRA 16:9)

1. Vladimirskiy nauchno-issledovatel skiy institut sinteticheskikh smol (for Landysheva, Kalinina, Redchenke). 2. Moskovskiy tekstil nyy institut (for Kukin, Chernov).

(Getten)

(Acetylation)

LANDYSHEVA, V.A.; RADCHENKO, G.O.; SPIRINA, L.S.; CHERNOV, Ye.N.

Development of the process of surface acetylation of textile fibers. Zhur.prikl. khim. 37 no. 5:1087-1092 My '64. (MIRA 17:7)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol.

KHVOSTOV, V.S., dotsent; CHERNOV, Ye.T., inzh.

Characteristics of an electric arc between adjacent collector plates.
Trudy MIIT no.205:76-80 '65. (MIRA 18:9)

CHERNOV, Ye.T., inzh.

Determination of the resistance of motion of the UK $\frac{25}{D}$ track laying crane. Trudy MIIT no.205:123-126 165. (MIRA 18:9)

CHERNOV, Yu.

"Fourth All-Union Radio-Telephone Contest of Short-Wave Operators of the All-Union Volunteer Society for Assistance to the Army, Aviation, and Navy," Radio, No.4, 1952

Operate the "Primorets" glider correctly. Kryl.rod. 11 no.11:18-20 N *60. (MIRA 13:10)

(Gliders (Aeronantics))

CHERRON, YOA

AID P - 4237

Subject

: USSR/Radio Engineering

Card 1/1

Pub. 90 - 3/8

Author

: Chernov, Yu. A.

Title

: Nonlinear distortions and stability of reflex circuits

Periodical: Radiotekhnika, v. 11, no. 1, 17-31, Ja 1956

Abstract

: The author analyzes reflex circuits from the point of view of the nonlinearities they introduce and attempts to find solutions in which nonlinear distortion would be minimized and the best stability conditions obtained. He concludes, on the basis of mathematical analysis of mingle and double tube assistance. single- and double-tube reflex circuits in which he uses pentodes, that such circuits can be very efficient and permit reducing considerably the number of tubes without impairing the electric characteristics of the receivers.

Seven diagrams.

Institution:

None

Submitted

: D 16, 1955

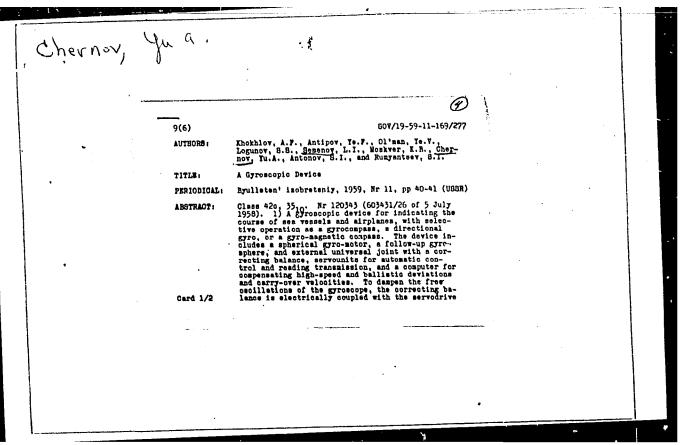
Tectonics of the Kotera-Muya watershed (northern Transbaikalia).

Izv. Sib. otd. AN SSSR no.2:21-28 '58. (MIRA 11:9)

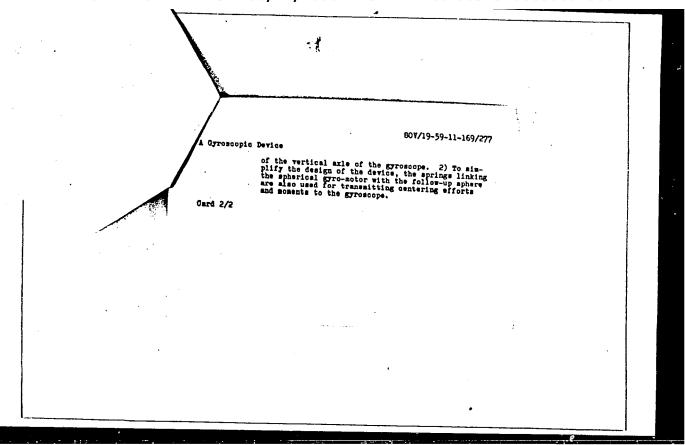
1. Vostochno-Sibirskiy filial AN SSSR.

(Kotera Valley--Geology, Structural)

(Muya Valley--Geology, Structural)



"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610001-2



| COTENACE: This book contains 18 articles on the weather and climate processing attacks articles represent the generalized results of processing attacks obtained by the Soviets during their special corporessing attacks obtained by the Soviets during their special corporessing attacks of climated to clarify and unity previously divergent views on Antarctic meteorological previously divergent views on Antarctic distributions, oppologic and anticyclonic sovement, etc.) distributions, oppologic and anticyclonic sovement, etc.) distributions, oppologic and anticyclonic sovement, interior articles. TABLE OF CONTENTS: Burkhanov, V. P. Investigating the Climate of the Antarctic 7 Tabler, O. M. Some Particular Features of Atmospheric Proc. 28 Leonov, M. Quee Particular Features of Atmospheric Proc. 28 Leonov, M. L. The Mature of Zonal Circulation Over the Antarctic of Antarctics and Antarctic Antarctics Anews Antarctics Antarctics Antarctics Antarctics Antarctics Antarc | Attacktic (Cinate of the Antarotic) Noscow, Geografels, S. 259, 259, 259, 18 - Trudy Mesorologys i Minatolic S. Trates ally inserted. *,000 copies printed. S. M. Kunkes) Tech. Ed.: S. M. Robelevs Editorial Board: F. Burchanov, B. L. Dzerdzeysväty, R. P. Pogosyan, and G. M. M. This book is intended for meteorologists and climatologism. **All be of interest to all earth solatifies concerned with Attaching region. **All be of interest to all earth solatifies on the weather and olimatologism. **All be of interest to all earth solatifies concerned with **Attaching region. **All be of interest to all earth solatifies on the weather and olimatologism. **All be of interest to all earth solatifies are and climatologism. **All be of interest to all earth solatifies are med olimatologism. **Attaching to Editorial Barticles on the weather and olimatologism. **Attaching to 1955-1958. **Attaching to 1955-1958. **Attaching to Tolonic and anticipologic more mine are mentioned. References accompany individual actions. **Action of Contents. **Attaching to Tolonic and anticipologic more mine. **Attaching to Tolonic more mine. **Attaching to Tolonic and Circulation Over the Tolonic more mine. **Attaching to Tolonic and Circulation of Attaching Attaching at Phonor Medicological Charactic. **Attaching to Tolonic and Min. Alvares. **Attaching to Tolonic more mine. **Attaching to Tolonic mo |
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BELICHENKO, V.G.; CHERNOV, Yu.A.; ZHURAVLEYA, I.T.

Lower Cambrian stratigraphy of the Kydymit-Zaza-Kholoy interfluve (Vitim Plateau). Geol. i geofiz. no.6:85-93 160. (MIRA 13:9)

1. Vostochno-Sibirskiy geologicheskiy institut Sibirskogo otdeleniya AN SSSR.

(Vitim Plateau-Geology, Stratigraphic)

BELICHENKO, V.G.; KHRENOV, P.M.; CHERNOV, Yu.A.

Late molasses of the early Caledonian geosyncline in the inner part of the Baikal mountain area. Dokl.AN SSSR 138 no.6:1405-1408 Je 161. (MIRA 14:6)

1. Vostochno-Sibirskiy geologicheskiy institut Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom N.M.Strakhovym. (Vitim Plateau-Geology, Stratigraphic)

BELICHENKO, Valentina Georgiyevna; KOMAROV, Yuriy Vasil'yevich; MUSIN, Yuriy Vasil'yevich; KHRENOV, Petr Mikhaylovich; CHERNOV, Yuriy Alekseyevich; FLORENSOV, N.A., otv.red.; SOLODOV, N.A., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Outline of the geology and petrography of the southern margin of the Vitim Plateau (northwestern Transbaikalia)] Geologo-petrograficheskii ocherk iuzhnoi okrainy Vitimskogo ploskogor'ia (Severo-Zapadnoe Zabaikal'e). Moskva, Izd-vo Akad.nauk SSSR. 1962. 166 p. (Akademiia nauk SSSR. Sibirskoe otdelenie. Vostochno-Sibirskii geologicheskii institut. Trudy, no.8).

(MIRA 16:2)

(Vitim Plateau-Geology)

CHERNOV, Yu.A.

Udino-Vitim structural-facies zone of the Early Caledonian geosyncline of the Baikal mountainous country. Geol. i geofiz. no.5:115-117 '63. (MIRA 16:8)

1. Institut zemnoy kory Sibirskogo otdeleniya AN SSSR, Irkutsk.
(Baikal lake region—Geology, Structural)
(Baikal lake region—Ore deposits)

KHRENOV, P.M.; CHERNOV, Yu.A.; SHERMAN, S.I.

Conference of young geologists of the Institute of the Earth's Crust. Geol.i geofiz. no.7:117-119 '63. (MIRA 16:10)

CHERNOV, Yu.A.

History of the geological development of the Udino-Vitim region in the Paleozoic (western Transbaikalia). Izv. AN SSSR. Ser.geol. 28 no.6:43-57 Je '63. (MIRA 16:8)

1. Institut zemnoy kory Sibirskogo otdeleniya AN SSSR, Irkutsk.
(Transbaikalia—Geology, Stratigraphic)

L 15791-65 EWT(d)/PSS-2/EEC(k)-2/EEC-1/EEC(t) Pn-1/Pp-1/Pac-1/Pg-1/Pt-10/P1-1/ACCESSION NR: AP4048922 ESD(c)/ESD(t)/ASD(a)-5 WS S/0286/61/000/020/0028/0028

AUTHORS: Kosikov, K. M.; Chernov, Yu. A.; Khrapko, I. K.; Vul'fov, Yu. D.; Gaponov, V. M.; Zakharov, V. A.

TITLE: A method of short-wave radio communication through the polar zone. Class

SOURCE: Bynlleten' izobreteniy i tovarny*kh znakov, no. 20, 1964, 28

TOPIC TAGS: short wave propagation, radio communication

ABSTRACT: This Author's Certificate presents a method of short-wave radio communication through the polar zone by using at the receiving station double or triple reception with summation of signals or with automatic selection. To increase the stability of the radio communication, the maximum of the directional diagram of the receiving antenna is oriented with a deviation from the azimuth within limits up to 1200.

ASSOCIATION: none

SUBMITTED: OlyJan63

SUB CODE: EC

NO REF SOV: 000

ENCL: 00 OTHER: 000

CHERNOV, Yu.A., inzh.

Equalizing currents in a contact network during parallel peration of a.c. traction substations. Trudy MIIT no.199:35-51 '65.

Effect of the inequality of transformation coefficients of substations on the magnitude of equalizing currents in an c.c. contact network. Ibid.:226-232 (MIRA 18:8)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610001-2

L 07912-67 EWT(1) ACC NRI

AP6033172

SOURCE CODE: UR/0033/66/043/005/1064/1073

AUTHOR: Chernov, Yu. A.

31

ORG: none

TITLE: Relation between the mass distribution of meteoric bodies and the autocorrelation function of the disintegrated planetary surface

SOURCE: Astronomichsekiy zhurnal, v. 43, no. 5, 1966, 1064-1073

TOPIC TAGS: autocorrelation function, similarity theory, meteor observation, mass distribution, planetary surface, meteor stream

ABSTRACT: A relation is established between the parameters of the autocorrelation function of the surface and the parameter s of a meteoric stream. On the basis of the similarity theory, an expression is obtained for the spectral density of squares of the decomposition amplitudes of the surface on the assumption that the surface is composed of similar craters. It is found that the parameter of distribution s of the meteoric stream, which causes the planetary surface to disintegrate, should not exceed 2 2/3. In the case when the main part of the autocorrelation function of the

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UDC: 523.531

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ACC NR: A17006018

SOURCE CODE: UR/0203/66/006/005/0881/0888

AUTHOR: Chernov, Yu. A.

ORG: none

TITLE: Influence of the Earth's magnetic field on a backscattered sounding signal

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 5, 1966, 881-888

TOPIC TAGS: earth magnetic field, signal to noise ratio

ABSTRACT: It is shown that in sounding by the backscattered signal method at nighttime the level of the extraordinary component is approximately equal to the ordinary component. In the daytime, when undeflecting absorption predominates, the ordinary component exceeds the extraordinary component. It is concluded from the analysis that if absorption [in one direction does not exceed 1.5 and the signal-to-noise ratio is > 0.2, the signal front corresponds to the lag of the ordinary component. It is shown that at nighttime both components should not differ significantly in level. Orig. art. has: 5 figures, 29 formulas and 1 table. [JPRS: 38,937]

SUB CODE: 09, 08 / SUBM DATE: 22Feb66 / ORIG REF: 003 / OTH REF: 011

Card 1/1

UDC: 550.383:550.388.2

ACC NR: AP7002192 SOURCE CODE: UR/0203/66/006/006/1047/1050

AUTHOR: Chernov, Yu.A.

ORG: none

TITLE: Experimental check of the validity of the parabolic ionospheric

model for oblique-incidence probing

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 6, 1966, 1047-1050

TOPIC TAGS: ionosphere, ionospheric propagation, ionospheric sounder, atmosphine model, ionorphine election density, Flager

ABSTRACT:

The ionosphere was oblique-incidence probed at different times of the day to check the validity of the parabolic ionospheric model. Theoretical values of $p_{min}(x)$ (where p_{min} is the minimum group path and x the ratio of the working to the critical frequency) obtained from a spherical model of the ionosphere with a parabolic distribution of electron density with height, were compared with experimentally obtained values. The half-thickness of the F2 layer was taken to be 100 km. experiments were conducted during the summers of 1962 and 1963; the number of sun spots during those periods was ~ 50 and 10 respectively. The probing was conducted in a southeasterly direction. The difference be-

Card

UDC: 550.388.2

ACC NR. AP7002192

tween various signal components in most cases could not be found because of the inadequate resolution of the equipment used (1 msec or 150 km). The position of the leading composite signal front was therefore established, and it was assumed to have been formed by an extraordinary component. Only received signals corresponding to an undisturbed F2 layer were chosen for the analysis. Experimental results were in good agreement with values calculated by using the parabolic model of the F2 layer with a half-thickness of 100 km. The height of the ionization maximum can be determined from a series of experiments if the critical frequency at the point of reflection is known.

SUB CODE: 04/ SUBM DATE: 22Feb66/ ORIG REF: 005/ OTH REF: 001 ATD PRESS: 5114

Cord 2/2

ACC NR: AP7002204

SOURCE CODE: UR/0203/66/006/005/1118/1120

AUTHOR: Chernoy, Yu. A.

ORG: none

TITLE: Number of return signals reflected from the F sub 2 layer during obliqueincidence backscatter sounding

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 6, 1966, 1118-1120

TOPIC TAGS: ionospheric variables, depolarization, flago, signal sufferior complete control of the possible types of oblique-incidence backscatter signals reflected from the F2 layer are investigated in order to facilitate decoding of oscillogram indicator patterns, and to study the depolarization of these signals. The number of backscatter signals for a given distance depends on the ratio of the working and critical frequencies, as well as on the absolute value of the critical frequency. Three types of signals are observed on the indicator screen when the working frequency is reduced from the maximum usable frequency (MUF) for one-hop transmission at a distance of \$3500 km via the F2 layer. The first type of signal

Card 1/3

UDC: 550.388.2

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610001-2

| ACC NR AP7002204 | | |
|------------------|---|--|
| | Table 1. | |
| | Type Number and makeup of the signals | |
| | I 1 2 3 x; o; x; o; 2(xo); (2(ox))x II 2 x; o xo; x; | |
| | III - 1 1 3 xx; o; +x | |
| Card 2/3 | | |

ACC NR: AP7002204

observed on the indicator screen, that which corresponds to maximum-distance single-hip transmission, is the extraordinary signal, which is stronger than the other type. As the frequency is lowered, this signal shifts its place on the screen and the ordinary signal component appears where the extraordinary signal had originally been. When the frequency is lowered further, a signal appears which corresponds to two-hop transmission. (It contains both the ordinary and extraordinary components). Two-hop transmission gives rise to three signals observable on the screen. Signals of the second type are observed when the transmission path follows at least three hops. They are characterized by an unequal number of hops in the forward and return directions. The third type of signal is characterized by depolarization during scatter and reflection; its strength is determined by the amount of depolarization.

[WA-3]

SUB CODE: 09/7/SUBM DATE: 12Apr66/ ATD PRESS 5114

Card 3/3

L 38735-66 EWT(d)/FWT(m)/EWP(k)/EWP(h)/T-2/EWP(w)/EWP(v)IJP(c) EM ACC NR: AP6025671 SOURCE CODE: UR/0413/66/000/013/0144/0144 INVENTOR: Sosul'nikov, I. L.; Chernov, Yu. G. ORG: none TITLE: Device for controlling an aircraft-flap suspension mechanism. No. 183596 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 144 TOPIC TAGS: aircraft actuating equipment, aircraft control equipment, aircraft wing, aircraft flap ABSTRACT: An Author Certificate has been issued for a device for controlling an aircraft-flap suspension system, which consists of guide tracks and carriages Fig. 1. Device for controlling an aircraftflap suspension mechanism 1 - Eccentric shaft; 2 - carriage; 3 - longeron; 4 - flap; 5 - hole; 6 - screw. Card 1/2 UDC: 629.135/138

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| carriage to th in its butt, w hole for a set | e flap's long hich is inter screw which | eron is grad ded for a wr can be secu | luated, with a ench for turni ced when the c | cam in its cen ng the shaft. arriage and tra | The shaft has a | |
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CHERNOV, Yu.I.

Synanthropic dipterans of the Yugor Peninsula and Vaygach Island. Ent. oboz. 38 no.3:579-582 '59. (MIRA 13:1)

l.Kafedra zoologii Moskovskogo oblastnogo pedagogicheskogo instituta im. N.K. Krunskoy, Moskva. (Yugor Peninsula--Flies) (Vaygach Island--Flies)

GRECHANYUK, N.M., podpolkovnik; DMITRIYEV, V:I., kand.istor.nauk, kapitan 2 ranga; KRINITSYN, F.S., kand.istor.nauk, polkovnik; CHERNOV, Yu.I., kapitan 3 ranga; LUPACH, V.S., red.; KONOVALOVA, Ye.K., tekhn.red.

[The Baltic Fleet; a historical sketch] Baltiiskii flot; istoricheskii ocherk. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 373 p. (MIRA 14:2) (Russia--Navy)

CHERNOV, Yu.I.

Complex of synanthropous dipterans in the arctic tundras of Yakutia. Nauch. dokl. vys. shkoly; biol. nauki no.3:35-38 '61. (MIRA 14:7)

1. Rekomendovana kafedroy zoologii i Moskovskogo oblastnogo pedagogicheskogo instituta im. N.K.Krupskoy. (ANABAR BAY REGION-DIPTERA)

CHERNOV, Yu.I.

Studying animal populations of soils in the Arctic tundras of Yakutia. Zool. shur. 40 no.3:326-333 Mr '61. (MIRA 14:3)

1. Department of Zoology, Moscow Regional Pedagogical Institue.
(Anabar Bay region—Soil fauna)

CHERNOV, Yu.I.

Correlation between the nature of vegetation and the composition of the animal population in some types of tundras. Vop. ekol. 7: 199-201 '62. (MIRA 16:5)

1. Oblastnoy pedagogicheskiy institut imeni N.K.Krupskoy, Moskva. (Tundras)

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CHERNOV, Yu.I.; USPENSKIY, S.M.

Role of insects in the nutrition of some Arctic birds. Biul. MOIP.Otd.biol. 67 no.4:26-31 J1-Ag '62. (MIRA 15:10) (ARCTIC REGIONS—BIRDS—FOOD) (INSECTS)

CHERNOV, Yu.I.

Dependence of the composition of the animal population of the soil and sod on the character of the vegetation in some types of tundras. Probl. Sev. no.8:254-267 164.

(MIRA 17:11)

1. Moskovskiy oblastney pedagogicheskiy institut imeni krupskoy, kafedra zoologii.

CHERNOV, Yu.I.

Complex of syranthropic Diptera in the tundra zone of the U.S.S.R. Ent. oboz. 44 no.1:74-83 165.

(MIRA 18:7)

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy, Moskva.

CHERNOV, Yu.I.

Some characteristics of the animal population in spotted tundras. Zool. zhur. 44 no.4:507-512 '65. (MIRA 18:6)

l. Kafedra zoologii Moskovskogo oblastnogo pedagogicheskogo instituta imeni Krupskoy.

CHERNOV, Yu.I.; SAVCHENKO, Ye.N.

Ecology and preimaginal phases of the development of the Arctic crane fly Tipula (Pterelachisus) carinifrons Holm. Zool. zhur. 44 no.5:777-779 '65. (MIRA 18:6)

l. Kafedra zoologii Moskovskogo oblastnogo pedagogicheskogo instituta i Institut zoologii AN UkrSSR, Kiyev.

CHERNOV,

y v. 1.

AUTHOR:

Yu.I. Chernov, Engineer,

128-58-6-15/17

· TITLE:

Advanced Technique and Efficient Equipment for Foundries (Liteynomu proizvodstvu peredcvuyu tekhniku i sovershennuyu osnastku)

PERIODICAL: Lifeynoye Proizvodstvo, 1958, Nr 6, p 32 (USSR)

ABSTRACT:

The author makes critical remarks on the article "Basic Progress methods for Founday Production" published in "Liteynoye Proizvodstvo", Nr 11, 1957. He states that the above article covers important and Tong-neglected problems which should have been treated much earlier, and necessitates further development. It is pointed out that almost all castings of over 3 to 5 tons are being produced manually. Experience shows, that sand-throwers are useful in molding heavy castings but in practice they are used very little. This is because of the lack of good crane equipment, as well as the design faults in the sand-throwers themselves, which the plants should eliminate but do not always have the necessary means. Therefore, sand-throwers are stinding idle in many foundries, and resulting in frozen production means. Sand-tirowers should be so equipped as to permit not only the mechanical filling of molds, but also the handling of mold boxes and the removal of the castings. Although the production of molding machines and sand-throwers is centralized, the production

Card 1/2

Advanced Technique and Efficient Equipment for Foundries 128-58-6-15/17

of centrifugal machines and die-casting machines is not, and therefore they are not standardized. There is no centralized production of foundry equipment (mold boxes, molding boards, etc.), and no plant shops (even at large plants) that produce foundry equipment. The author states that the foundry institutes and designing organizations should be provided with good production plants for testing and perfecting their machines.

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Card 2/2 1. Foundries-Operation 2. Foundries-USSR 3. Foundries-Equipment

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18(5) AUTHOR:

Chernov, Yu.I. Engineer

SOV/128-59-3-19/31

TITLE:

Die-Casting of Complicated Shapes

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 3, pp 43-44 (USSR)

ABSTRACT:

During the recent years at the electric steel plant for heavy macinery a new die casting mold for casts with complicated shapes to be poured from cast iron type S CH 15-32 has been introduced. Six drawings and two photos together with the description of the design of the components needed for the die casting method are given. This newly introduced die casting process allows to pour two each castings of complicated shapes at the same time and without further subsequent machining. At the same time this method leads to huge savings. In one table time and material savings are

listed

Card 1/1

SOV/128-59-10-17/24

18(5)

AUTHOR:

Chernov, Yu.I., Engineer

TITLE:

Pouring Basin with a Partition Wall

PERIODICAL:

Liteymoye proizvodstvo, 1959, Nr 10, pp 43-44 (USSR)

ABSTRACT:

The author states that the existing types of pouring basins, according to GOST 2613-44, do not satisfy the demand to avoid slag getting into the mould. For this reason there are several foundries which use pouring basins with a partition wall. Fig.1 shows a pouring basin of this kind which is not difficult to produce. It is used in the Elektrostal'skiy zavod tyazhelogo mashinostroyeniya (Elektrostal' Factory of Heavy Machine Construction). This pouring basin is made of quartz sand with 6-7% soluble glas. Fig. 2 shows the core box which is used for the production of this

pouring basin. There are 3 diagrams.

Card 1/1

CHERNOV, Yuriy Ivanovich; KIZILOV, Anatoliy Ivanovich; LAKSHIN, A.P., kand. tekhn. nauk, retsenzent; ZHUKOV, A.A., kand. tekhn. nauk, red.; IVANOVA, K.N., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Handbook on foundry equipment] Spravochnik po liteinoi osnastke.

Moskva, Gos. nauchnc-tekhn. izd-vo mashinostroit. lit-ry, 1961. 406 p.

(HIRA 14:11)

(Foundries-Equipment and supplies)

CHERNOV, Yu.I.; DOLBENKO, Ye.T.; SHENKER, B.Z.; VASILEVSKIY, P.F., kand. tekhn.nauk, retsenzent

[Founding in the heavy machinery industry; an album] Izgotovlenie otlivok v tiazhelom mashinostroenii; al'bom. Moskva, Mashinostroenie, 1964. 154 p. (MIRA 17:12)

CHERNOV, Yu.!.

Determining the wall thickness of a hollow core. Lit. proizv.
no.3:35 Mr '64. (MIRA 18:9)

CHERNOV, Yu.I.

Determining the optimal quantity of chaplets placed in a mold. Lit. proizv. no.ll:40-41 N '64. (MIRA 18:8)